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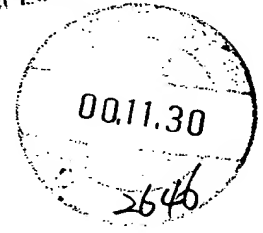
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## 특허청 의견제출통지서



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출원번호                10-1999-0001938                014538 (45, 46)  
발명의 명칭            채널번호 자동 메모리장치

이 출원에 대한 심사결과 거절이유가 있어 아래와 같이 통지하오니 의견이 있는 경우에는 특허법 제 63조의 규정에 의하여 의견서를, 보정이 필요한 경우에는 특허법 제47조제2항제3호의 규정에 의하여 보정서를 위의 기간내에 제출하여 주시기 바랍니다. (위의 기간은 매회 1월 단위로 연장신청할 수 있으며, 별도의 기간연장승인통지는 하지 않습니다.)

### [이유]

이 출원의 특허청구범위 제1항 내지 제4항에 기재된 발명은 그 출원전에 이 발명이 속하는 기술분야에서 통상의 지식을 가진 자가 아래에 지적한 것에 의하여 용이하게 발명할 수 있는 것이므로 특허법 제29조제2항의 규정에 의하여 특허를 받을 수 없습니다.

본원의 청구범위 제1항 내지 제4항은 채널이 선국되면 그 선국된 채널에 신호가 존재하는지를 판단하고 선국된 채널에 신호가 존재하면 그 채널번호를 자동으로 기억시키는 채널번호 메모리 장치에 관한 것이다.

이는 첨부된 인용고안(국내공개실용신안공보 98-14123)인 방송신호 수신에 있으면 수신 시간이 일정 시간 지속되고 있는가를 체크하여 일정시간 지속되는 경우에는 채널 메모리에 그 방송 채널을 기억시키는 기능을 갖는 브이시알 시스템 및/또는 첨부된 인용발명(국내공개특허공보 98-56950)인 티브이 및 브이시알 시스템의 자동선국 및 기억 채널 표시 제어방법과 유사합니다. 즉 본 발명의 구성요소는 상세한 설명에 기재된 종래기술 및 상기 인용발명의 메뉴 기능키에 의해 전 채널을 스캔한 후 신호가 존재하는 채널을 자동으로 기억시키는 채널 자동 기억 장치와 유사합니다. 다만, 본 발명은 상기 인용발명이 갖고 있는 채널 자동 기억키(메뉴 기능키) 없이 선택된 채널에 방송신호가 있으면 자동으로 그 채널을 기억시킨다는 점에서 차이가 난다 할 수 있으나, 이 기술은 상기 인용고안에 나타난 기술에 지나지 않아 당 분야의 통상의 지식을 가진 자라면 상기 인용발명 및 인용고안에서 본 발명을 용이하게 발명할 수 있는 것으로 인정됩니다.

### [참 부]

첨부 1 국내공개실용신안공보 1998-14123(공개일 1998.6.5) 1부.  
첨부 2 국내공개특허공보 98-56950(공개일 1998.9.25) 1부.

끝.

2000.11.29

특허청 심사4국

심사관 황은



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<<안내>>

문의사항이 있으시면 ☎ 042)481-5688 로 문의하시기 바랍니다.

## NOTICE TO SUBMIT RESPONSE

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Application No.: 10-1999-0001938

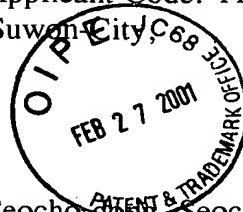
Title of the Invention: Automatic Channel Memory Device

According to Article 63 of the Korean Patent Law, the applicant is notified that the present application has been rejected for the reasons given below. Any Argument or Amendment which the applicant may wish to submit, must be submitted by the due date mentioned above. An indefinite number of one-month extensions in the period for submitting a response may be obtained upon request, however no official confirmation of the acceptance of a request for an extension will be issued.

### Reasons

The invention defined in claims 1 through 4 of the present application could have been easily invented by one skilled in the art prior to the filing of the application, and thus this application is rejected according to Article 29 (2) of the Korean Patent Law.

The invention defined in claims 1 through 4 of this application relates to a channel memory device for determining whether a broadcasting signal is present in a tuned channel and automatically memorizing the tuned channel number if a broadcasting signal is present in the tuned channel. However, the present invention is similar to cited reference 1 (Korean Laid-open Utility Model Publication No. 98-14123) and cited reference 2 (Korean Laid-open Patent Publication No. 98-56950). Cited reference 1 relates to a VCR system for checking whether receipt time continues for a predetermined time if a broadcasting signal is received and memorizing the broadcasting channel in a channel memory if the receipt time continues for a predetermined time. Cited reference 2 relates to a method of controlling automatic tuning and memory channel display in a TV and a VCR system. In other words, the structural element of the present invention is similar to the prior art described in the detailed description of the present invention and an automatic channel



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memory device for automatically memorizing channels having a broadcasting signal after scanning all channels by a menu key described in cited reference 2. The present invention is different from cited reference 2 in that if a broadcasting signal is present in a selected channel, the selected channel is automatically memorized without an automatic channel memory key (menu key). However, this technique is only the one described in cited reference 1. Thus, the present invention is considered to have easily been invented by one skilled in the art from cited references 1 and 2.

Enclosure: Korean Laid-open Utility Model Publication No. 1998-14123 (Published 5 June 1998)  
Korea Laid-open Patent Publication No. 98-56950 (Published 25 September 1998)

29 November 2000

Eun-taek Hwang/Examiner  
Examination Division 4  
Korean Industrial Property Office

**Korean Industrial Property Office (KR)  
Publication Utility Model (U)**

Publication No. U1998-014123

Publication Date: 5 June 1998

Application No.: U 1996-027727

Application Date : 31 August 1996

Title of the Invention: VCR System Having Function of Automatic Channel Memory

Abstract

The present invention relates to a VCR system having a tuning means of frequency synthesis method. In a prior art, a channel, which is tuned when an automatic channel memory function is not performed in a VCR system, is not memorized in a channel memory. Thus, tuning the channel is repeated.

To solve the above problem, there is provided a VCR system having an automatic channel memory function, comprising a tuning means of frequency synthesis method. The VCR system also includes a microcomputer in which time check channel memory program 100 for checking whether receipt time continues for a predetermined time if a broadcasting signal is received and automatically registering the present broadcasting channel in a temporary memory channel table assigned to a channel memory if the receipt time continues for a predetermined time, and a temporary memory channel search program 200 for searching the temporary memory channel registered in the time check channel memory program 100 using user's up/down key are mounted.

**Korean Industrial Property Office (KR)  
Publication Patent Gazette (A)**

Publication No. P1998-056950  
Publication Date: 25 September 1998

Application No.: P1996-076220

Application Date : 30 December 1996

Title of the Invention: Method of Controlling Automatic Tuning and Memory  
Channel Display in TV and VCR System

Abstract

The present invention relates to a method of controlling automatic tuning and memory channel display in a TV and a VCR system. It is the object of the present invention to display all memory channels, on an OSD screen, which are automatically tuned and stored in the TV or the VCR system having an automatic channel tuning function of automatically tuning and memorizing a channel having a broadcasting signal.

To achieve the above object, the present invention comprises the steps of: (1) showing guide picture for function selection and standing by user's function selection when a function selection key is pressed; (2) determining whether or not a broadcasting signal is present in a second channel, memorizing a channel having a broadcasting signal and repeating displaying all memorized channel numbers on an OSD with channel by channel to the final channel increasing if an automatic channel tuning mode is selected in the first step; (3) re-showing guide picture for function selection if the motion of the second step is completed and ending the motion if the function selection key is pressed